Abstract

The technology of motion detection has become one of the important research areas in computer vision. In surveillance video this has got a number of applications which range from indoor and outdoor security environment, traffic control, behavior detection during spot activities and for compression of video. In this paper simple but robust moving object detection and segmentation algorithm is proposed. The algorithm is based on the background subtraction. A differencing and summing technique (DST) has been used for the moving object detection and segmentation. This method is simple and low in computational complexity as compared to traditional object identification and segmentation techniques. The experimental results show that the proposed method work efficiently in identifying and segmenting moving objects, both in indoor as well as in outdoor environment with static background.
Moving Object Detection and Segmentation using Frame Differencing and Summing Technique


Index Terms

Computer Science Multimedia

Keywords

Object identification Object segmentation background subtraction surveillance video bonding box.